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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>	
			Application Number	NEW 10/510034
			Filing Date	October 1, 2004
			First Named Inventor	Shen Quan PAN
			Art Unit	MA 1637
			Examiner Name	Not Yet Assigned Mark Staples
Sheet 1 of 1	Attorney Docket Number	3671-0110PUS1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
MS	CA	Patil et al. "Nuclear internalization of foreign DNA by zebrafish spermatozoa and its enhancement by electroporation", The Journal of Experimental Zoology 274, 1996, pages 121-129.		
MS	CB	Chen et al. "Cointegration of DNA molecules introduced into mammalian cells by electroporation", Somatic Cell and Molecular Genetics 24 (4), 1998, pages 249-256.		
MS	CC	Ainger et al. "Transport and localization of exogenous myelin basic protein mRNA microinjected into oligodendrocytes", The Journal of Cell Biology 123 (2), 1993, pages 431-441.		

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Mark Staples/	Date Considered	12/07/2006
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Sheet 1 of 3 (2/10/05)

Form PTO-1449				ATTY. DOCKET NO. 3671-0110PUS1		APPLICATION NO. 10/510,034	
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use several sheets if necessary)				APPLICANT Shen Quan PAN			
				FILING DATE October 1, 2004		GROUP <del>UNKNOWN</del> 1637	
<b>U.S. PATENT DOCUMENTS</b>							
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MS	Nurit BALLAS, et al, NUCLEAR LOCALIZATION SIGNAL BINDING PROTEIN FROM ARABIDOPSIS MEDIATES NUCLEAR IMPORT OF AGROBACTERIUM VIR2 PROTEIN, Proc. Natl. Acad. Science, USA, 94, ppgs. 10723-10728 (1997).						
	Deborah O. CO, et al, GENERATION OF TRANSGENIC MICE AND GERMLINE TRANSMISSION OF A MAMMALIAN ARTIFICIAL CHROMOSOME INTRODUCED INTO EMBRYOS BY PRONUCLEAR MICROINJECTION, Chromosomes Research, 8(3), ppgs 183-191 (2000).						
	Vicky BUCHANAN-WOLLASTON, et al, THE MOB AND ORIT MOBILIZATION FUNCTIONS OF A BACTERIAL PLASMID PROMOTE ITS TRANSFER TO PLANTS, Nature, Vol. 328, ppgs 172-175 (1987).						
	Paul BUNDOK, et al, TRANS-KINGDOM T-DNA TRANSFER FROM AGROBACTERIUM TUMEFACIENS TO SACCHAROMYCES CEREVISIAE, EMBO Journal, Vol. 14, No. 13, ppgs 3206-3214 (1995).						
	Lie CHENG, et al, FLOURESCENCE IN SITU HYBRIDIZATION METHOD FOR MEASURING TRANSFECTION EFFICIENCY, BioTechniques, 21(3), September 1996, ppgs 486-491.						
	Peter J. CHRISTIE, TYPE IV SECRETION: INTERCELLULAR TRANSFER OF MACROMOLECULES BY SYSTEMS ANCESTRALLY RELATED TO CONJUGATION MACHINES, Molecular Microbiology (2001) 40(2), ppgs. 294-305 (2001).						
	G. Brian WISDOM, ENZYME-IMMUNOASSAY, Clin. Chem., 22(8), ppgs. 1243-1255 (1976).						
	E. SOINI, et al, FLUOROIMMUNOASSAY: PRESENT STATUS AND KEY PROBLEMS, Clin. Chem., 25(3), ppgs. 353-361 (1979).						
	Frans GORUS, et al, APPLICATIONS OF BIO- AND CHEMILUMINESCENCE IN THE CLINICAL LABORATORY, Clin. Chem., 25(4), ppgs. 512-519 (1979).						
	Philippe COLLAS, et al, NUCLEAR LOCALIZATION SIGNALS ENHANCE GERMLINE TRANSMISSION OF A TRANSGENE IN ZEBRAFISH, Transgenic Research, 7(4), ppgs. 303-309 (1998).						
↓	Marcel J.A. DE GROOT, et al, AGROBACTERIUM TUMEFACIENS-MEDIATED TRANSFORMATION OF FILAMENTOUS FUNGI, Nat. Biotechnology, Vol. 16, ppgs. 839-842 (1998).						
MS	Wanyin DENG, et al, AGROBACTERIUM VIR2 PROTIEN INTERACTS WITH PLANT HOST CYCLOPHILINS, Proc. Natl. Acad. Sci. USA, Vol. 95, ppgs. 7040-7045 (1998).						
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MS	Fabrice DUMAS, et al, AN AGROBACTERIUM VIRE2 CHANNEL FOR TRANSFERRED-DNA TRANSPORT INTO PLANT CELLS, Proc. Natl. Academy Science USA, Vol. 98, No. 2, ppgs. 485-490 (2001).						
	Richard C. GARDNER, et al, TRANSFER OF AGROBACTERIUM DNA TO PLANTS REQUIRES A T-DNA BORDER BUT NOT THE VIRE LOCUS, Science 1986, ppgs. 725-727 (1986).						
	J. HANS DE JONG, et al, HIGH RESOLUTION FISH IN PLANTS- TECHNIQUES AND APPLICATIONS, Trends in Plant Science, Vol. 4, No. 7, ppgs. 258-263 (1999).						
	Joginder NATH, et al, A REVIEW OF FLOURESCENCE IN SITU HYBRIDIZATION (FISH): CURRENT STATUS AND FUTURE PROSPECTS, Biotech. Histochem., Vol. 75, No. 2, ppgs 54-78 (2000).						
	Kevin L. PIERS, et al, AGROBACTERIUM TUMEFACIENS-MEDIATED TRANSFORMATION OF YEAST, Proc. Natl. Acad. Sci., Vol. 93, ppgs. 1613-1618 (1996).						
	Talya KUNIK, et al, GENETIC TRANSFORMATION OF HELA CELLS BY AGROBACTERIUM, Proc. Natl. Acad. Sci. USA, Vol. 98, No. 4, ppgs. 1871-1876 (2001).						
	Hugo T. MATERN, et al, THE SEC6/8 COMPLEX IN MAMMALIAN CELLS: CHARACTERIZATION OF MAMMALIAN SEC3, SUBUNIT INTERACTIONS, AND EXPRESSION OF SUBUNITS IN POLARIZED CELLS, Proc. Natl. Acad. Sci. USA, Vol. 98, No. 17, ppgs. 9648-9653 (2001).						
	Soma B. NARASIMHULU, et al, EARLY TRANSCRIPTION OF AGROBACTERIUM T-DNA GENES IN TOBACCO AND MAIZE, The Plant Cell, Vol. 8, ppgs. 873-886 (1996).						
	Shozo OHTA, et al, CONSTRUCTION AND EXPRESSION IN TOBACCO OF A $\beta$ -GLUCURONIDASE (GUS) REPORTER GENE CONTAINING AN INTRON WITHIN THE CODING SEQUENCE, Plant Cell Physiol., 31(6), ppgs. 805-813 (1990).						
	Clair E. SHURVINTON, et al, A NUCLEAR LOCALIZATION SIGNAL AND THE C-TERMINAL OMEGA SEQUENCE IN THE AGROBACTERIUM TUMEFACIENS VIR2 ENDONUCLEASE ARE IMPORTANT FOR TUMOR FORMATION, Proc. Natl. Acad. Sci. USA, Vol. 89, ppgs. 11837-11841 (1992).						
	Scott E. STACHEL, et al, THE GENETIC AND TRANSCRIPTIONAL ORGANIZATION OF THE VIR REGION OF THE A6 TI PLASMID OF AGROBACTERIUM TUMEFACIENS, EMBO Journal, Vol. 5, No. 7, ppgs. 1445-1454 (1986).						
MS	Tzvi TZFIRA, et al, VIP1, AN ARABIDOPSIS PROTEIN THAT INTERACTS WITH AGROBACTERIUM VIRE2, IS INVOLVED IN VIRE2 NUCLEAR IMPORT AND AGROBACTERIUM INFECTIVITY, EMBO Journal, Vol. 20, No. 13, ppgs. 3596-3607 (2001).						
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MS	Elizabeth L. VIRTIS, et al, ANALYSIS OF TRANSFER OF TUMOR-INDUCING PLASMIDS FROM AGROBACTERIUM TUMEFACIENS TO PETUNIA PROTOPLASTS, Journal of Bacteriology, June 1985, Vol. 162, No. 3, ppgs. 1030-1038.						
MS	Stephen C. WINANS, et al, CHARACTERIZATION OF THE VIRE OPERON OF THE AGROBACTERIUM TI PLASMID PTIA6, Nucleic Acids Research, Vol. 15, No. 2, ppgs. 825-837 (1987).						
MS	Martin F. YANOFSKY, et al, THE VIRD OPERON OF AGROBACTERIUM TUMEFACIENS ENCODES A SITE-SPECIFIC ENDONUCLEASE, Cell, Vol. 47, ppgs. 471-477 (1986).						
MS	Alicja ZIEMIENOWICZ, et al, IMPORT OF AGROBACTERIUM T-DNA INTO PLANT NUCLEI: TWO DISTINCT FUNCTIONS OF VIRD2 AND VIRE2 PROTIENS, The Plant Cell, Vol. 13, ppgs. 369-383 (2001).						
MS	John ZUPAN, et al, THE TRANSFER OF DNA FROM AGROBACTERIUM TUMEFACIENS INTO PLANTS: A FEAST OF FUNDAMENTAL INSIGHTS, The Plant Journal, Vol. 23., No. 1, ppgs. 11-28 (2000).						
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PATENT  
3671-0110PUS1

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Shen Quan PAN                      Conf.: UNKNOWN  
Appl. No.: 10/510,034                      Group: UNKNOWN  
Filed: October 1, 2004                      Examiner: UNKNOWN  
For: VISUALIZATION OF INTRODUCED DNA (VOID)  
IN TRANSIT BY IN SITU HYBRIDIZATION

INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION AFTER FILING OF AN APPLICATION  
BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE  
OR CONCURRENTLY WITH A RULE 1.114 RCE APPLICATION)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

February 10, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449(s), attached hereto.

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- b. ☐ Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should already be in the PTO file. If copies are needed, please contact the undersigned.